

ANNUAL DART REPORT 2016 - summary

Introduction

The Danish Registry of Transfusion Risks (DART) is an organisation under the Danish Society of Clinical Immunology (DSKI). DART collects information about adverse events and reactions related to blood transfusion from all five regions in Denmark. DART is member of the International Haemovigilance Network (IHN), and is run on a voluntary and confidential basis with the purpose of developing an open learning- and improvement culture for errors and risks in blood transfusion.

To report an adverse event or reaction to blood transfusion, the blood transfusion centers fill in a standard form and submit it to DART. An annual report is published providing tables of the data and summary information on the reported cases.

For all tables only transfusion reactions reported have been mentioned.

Results

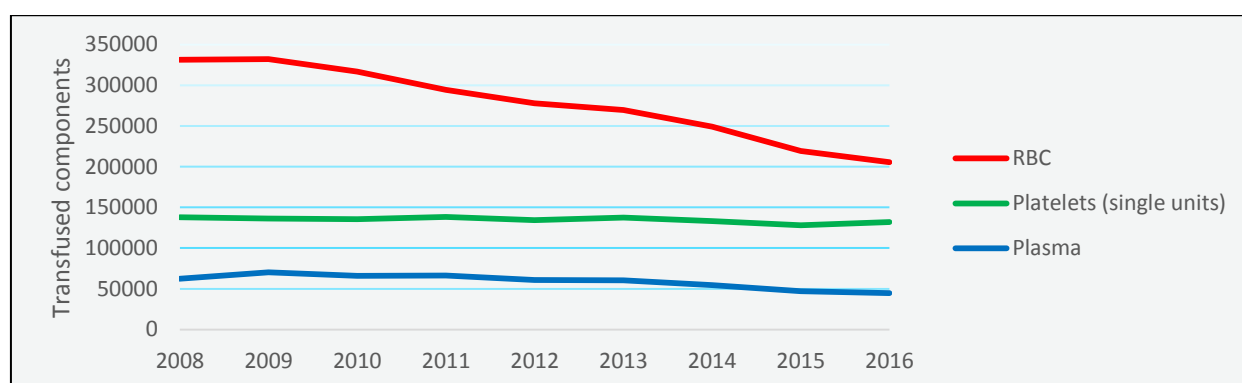
A total of 20 reports were submitted in 2016 (table 1), which is the same level as in the two previous years (19 and 24 reports, respectively), despite a markedly decrease in the usage of blood components, especially red blood cells, in this period (Table 2).

Table 1 Reports received in 2016.

Reaction/error	Red cells	Platelets	Plasma	Total
Wrong patient	1	0	0	1
Wrong component	1	1	0	2
Transfusion associated circulatory overload	1	0	0	1
Acute haemolytic transfusion reaction	1	0	0	1
Anaphylactic reaction	1	1*	4	6*
Transfusion-related acute lung injury	2	1	1	4
Delayed haemolytic transfusion reaction	4	0	0	4
Febrile non-haemolytic transfusion reaction	1	1	0	2
Total	12	4*	5	21*

*One patient experiencing an anaphylactic reaction during transfusion with both plasma and platelets

Table 2 Blood components transfused in 2008-2016



Severity

In 2016, no fatalities occurred following an adverse transfusion reaction.

Transfusion reactions of severity grade 2 and 3 comprise 50% (23% and 39% in 2015 and 2014 respectively), which is mainly attributed by the number of anaphylactic reactions reported, (table 3).

By comparison, data on severity 2014-2016 is shown in table 4.

Table 3 Severity (grade 1-4) 2016

Reaction/error	1 (non-severe)	2 and 3 (severe and life-threatening)	4 (death)	Total
Wrong patient	1	0	0	1
Wrong component	2	0	0	2
Acute haemolytic transfusion reaction	1	0	0	1
Delayed haemolytic transfusion reaction	4	0	0	4
Anaphylactic reaction	0	6	0	6
Transfusion-related acute lung injury	0	3	0	3
Transfusion associated circulatory overload	0	1	0	1
Febrile non-haemolytic transfusion reaction	2	0	0	2
Total	10	10	0	20
Ratio pr/100.000*	3,5	3,5	0	7,1

*platelets as components (4 donors)

Table 4 severity (grade 1-4) 2014-2016

